

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT Deptno, Dname, Loc
2 FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> SELECT *
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6);

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> ED
Wrote file afiedt.buf

1 SELECT *
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6*) MyDept
SQL> /

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> ED
Wrote file afiedt.buf

1 SELECT MyDept.Deptno, MyDept.Dname

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```
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6* ) MyDept
SQL> /
```

```
DEPTNO DNAME
```

```
-----
10 ACCOUNTING
20 RESEARCH
30 SALES
40 OPERATIONS
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT MyDept.Deptno, MyDept.Dname
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6 ) MyDept
7* WHERE MyDept = 20
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT MyDept.Deptno, MyDept.Dname
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6 ) MyDept
7* WHERE MyDept.Deptno = 20
SQL> /
```

```
DEPTNO DNAME
```

```
-----
20 RESEARCH
```

```
SQL> cl scr
```

```
SQL> SELECT * FROM Emp;
```

```
EMPNO ENAME      JOB              MGR HIREDATE          SAL
COMM      DEPTNO
-----
```

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```

10      7839 KING          PRESIDENT          17-NOV-81          5000
30      7698 BLAKE        MANAGER            7839 01-MAY-81          2850
10      7782 CLARK        MANAGER            7839 09-JUN-81          2450
20      7566 JONES        MANAGER            7839 02-APR-81          2975
1400    7654 MARTIN        SALESMAN            7698 28-SEP-81          1250
300     30
1000    7499 ALLEN        SALESMAN            7698 20-FEB-81          1600
300     30
0       7844 TURNER       SALESMAN            7698 08-SEP-81          1500
30      30
30      7900 JAMES        CLERK              7698 03-DEC-81           950
500     30
20      7521 WARD         SALESMAN            7698 22-FEB-81          1250
20      7902 FORD         ANALYST            7566 03-DEC-81          3000
20      7369 SMITH        CLERK              7902 17-DEC-80           800
20      7788 SCOTT        ANALYST            7566 09-DEC-82          3000
20      7876 ADAMS        CLERK              7788 12-JAN-83          1100
20      7934 MILLER       CLERK              7782 23-JAN-82          1300
10

```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT *
2  FROM
3  (
4  SELECT *
5  FROM Emp
6* )
SQL> /

```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7839	KING	PRESIDENT		17-NOV-81	5000

10

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```

30      7698 BLAKE      MANAGER      7839 01-MAY-81      2850
10      7782 CLARK      MANAGER      7839 09-JUN-81      2450
20      7566 JONES      MANAGER      7839 02-APR-81      2975
1400    7654 MARTIN      SALESMAN      7698 28-SEP-81      1250
300      30
7499 ALLEN      SALESMAN      7698 20-FEB-81      1600
300      30
7844 TURNER      SALESMAN      7698 08-SEP-81      1500
0      30
7900 JAMES      CLERK      7698 03-DEC-81      950
30      7521 WARD      SALESMAN      7698 22-FEB-81      1250
500      30
7902 FORD      ANALYST      7566 03-DEC-81      3000
20      7369 SMITH      CLERK      7902 17-DEC-80      800
20      7788 SCOTT      ANALYST      7566 09-DEC-82      3000
20      7876 ADAMS      CLERK      7788 12-JAN-83      1100
20      7934 MILLER      CLERK      7782 23-JAN-82      1300
10

```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT MyEmp.*
2  FROM
3  (
4  SELECT *
5  FROM Emp
6* ) MyEmp
SQL> /

```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7839	KING	PRESIDENT		17-NOV-81	5000
7698	BLAKE	MANAGER	7839	01-MAY-81	2850

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```

10      7782 CLARK      MANAGER      7839 09-JUN-81      2450
20      7566 JONES      MANAGER      7839 02-APR-81      2975
30      7654 MARTIN     SALESMAN     7698 28-SEP-81      1250
1400      30
300      7499 ALLEN      SALESMAN     7698 20-FEB-81      1600
0         30
30      7844 TURNER     SALESMAN     7698 08-SEP-81      1500
500      7900 JAMES      CLERK        7698 03-DEC-81      950
20      7521 WARD        SALESMAN     7698 22-FEB-81      1250
20      7902 FORD        ANALYST      7566 03-DEC-81      3000
20      7369 SMITH       CLERK        7902 17-DEC-80      800
20      7788 SCOTT       ANALYST      7566 09-DEC-82      3000
20      7876 ADAMS       CLERK        7788 12-JAN-83      1100
10      7934 MILLER     CLERK        7782 23-JAN-82      1300

```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT MyEmp.*, MyEmp.Sal * 12 AnnSal
2  FROM
3  (
4  SELECT *
5  FROM Emp
6* ) MyEmp
SQL> /

```

COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
	DEPTNO		ANNSAL			
10	7839	KING	PRESIDENT		17-NOV-81	5000
30	7698	BLAKE	MANAGER	7839	01-MAY-81	2850
10	7782	CLARK	MANAGER	7839	09-JUN-81	2450

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```

20      7566 JONES      MANAGER      7839 02-APR-81      2975
      35700
1400    7654 MARTIN    SALESMAN    7698 28-SEP-81      1250
      30      15000
300     7499 ALLEN     SALESMAN    7698 20-FEB-81      1600
      30      19200
0       7844 TURNER    SALESMAN    7698 08-SEP-81      1500
      30      18000
30      7900 JAMES     CLERK       7698 03-DEC-81      950
      11400
500     7521 WARD      SALESMAN    7698 22-FEB-81      1250
      30      15000
20      7902 FORD      ANALYST     7566 03-DEC-81      3000
      36000
20      7369 SMITH     CLERK       7902 17-DEC-80      800
      9600
20      7788 SCOTT     ANALYST     7566 09-DEC-82      3000
      36000
20      7876 ADAMS     CLERK       7788 12-JAN-83      1100
      13200
10      7934 MILLER    CLERK       7782 23-JAN-82      1300
      15600

```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT MyEmp.*, MyEmp.Sal + NVL(MyEmp.Comm, 0) TotSal
2  FROM
3  (
4  SELECT *
5  FROM Emp
6* ) MyEmp
SQL> /

```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO	TOTSAL			
10	7839 KING	PRESIDENT		17-NOV-81	5000
30	7698 BLAKE	MANAGER	7839	01-MAY-81	2850
10	7782 CLARK	MANAGER	7839	09-JUN-81	2450
20	7566 JONES	MANAGER	7839	02-APR-81	2975

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```

1400      7654 MARTIN      SALESMAN      7698 28-SEP-81      1250
          30      2650
300      7499 ALLEN      SALESMAN      7698 20-FEB-81      1600
          30      1900
0      7844 TURNER      SALESMAN      7698 08-SEP-81      1500
          30      1500
30      7900 JAMES      CLERK      7698 03-DEC-81      950
          950
500      7521 WARD      SALESMAN      7698 22-FEB-81      1250
          30      1750
20      7902 FORD      ANALYST      7566 03-DEC-81      3000
          3000
20      7369 SMITH      CLERK      7902 17-DEC-80      800
          800
20      7788 SCOTT      ANALYST      7566 09-DEC-82      3000
          3000
20      7876 ADAMS      CLERK      7788 12-JAN-83      1100
          1100
10      7934 MILLER      CLERK      7782 23-JAN-82      1300
          1300
  
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT MyEmp.*, MyEmp.Sal + NVL(MyEmp.Comm, 0) TotSal
2  FROM
3  (
4  SELECT *
5  FROM Emp
6  ) MyEmp
7* WHERE MyEmp.Sal + NVL(MyEmp.Comm, 0) > 2500
  
```

SQL> /

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO	TOTSAL			
10	7839 KING	PRESIDENT		17-NOV-81	5000
30	7698 BLAKE	MANAGER	7839	01-MAY-81	2850
20	7566 JONES	MANAGER	7839	02-APR-81	2975
1400	7654 MARTIN	SALESMAN	7698	28-SEP-81	1250

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```
.....
      7902 FORD          ANALYST          7566 03-DEC-81          3000
20      3000
      7788 SCOTT          ANALYST          7566 09-DEC-82          3000
20      3000
```

6 rows selected.

SQL> cl scr

SQL> SELECT Empno, Ename, Deptno, Sal
2 FROM Emp;

EMPNO	ENAME	DEPTNO	SAL
7839	KING	10	5000
7698	BLAKE	30	2850
7782	CLARK	10	2450
7566	JONES	20	2975
7654	MARTIN	30	1250
7499	ALLEN	30	1600
7844	TURNER	30	1500
7900	JAMES	30	950
7521	WARD	30	1250
7902	FORD	20	3000
7369	SMITH	20	800
7788	SCOTT	20	3000
7876	ADAMS	20	1100
7934	MILLER	10	1300

14 rows selected.

SQL> SELECT Deptno, SUM(Sal) SalSum
2 FROM Emp
3 GROUP BY Deptno
4 ORDER BY Deptno;

DEPTNO	SALSUM
10	8750
20	10875
30	9400

SQL> ED
Wrote file afiedt.buf

```
1 SELECT Deptno, AVG(Sal) SalAvg
2 FROM Emp
3 GROUP BY Deptno
```

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```
4* ORDER BY Deptno
SQL> /
```

DEPTNO	SALAVG
10	2916.66667
20	2175
30	1566.66667

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Empno, Ename, OE.Deptno, Sal, IE.SalAvg
3  FROM Emp OE,
4  (
5  SELECT Deptno, AVG(Sal) SalAvg
6  FROM Emp
7  GROUP BY Deptno
8  ) IE
9* WHERE OE.Deptno = IE.Deptno
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	SALAVG
7521	WARD	30	1250	1566.66667
7900	JAMES	30	950	1566.66667
7844	TURNER	30	1500	1566.66667
7499	ALLEN	30	1600	1566.66667
7654	MARTIN	30	1250	1566.66667
7698	BLAKE	30	2850	1566.66667
7876	ADAMS	20	1100	2175
7788	SCOTT	20	3000	2175
7369	SMITH	20	800	2175
7902	FORD	20	3000	2175
7566	JONES	20	2975	2175
7934	MILLER	10	1300	2916.66667
7782	CLARK	10	2450	2916.66667
7839	KING	10	5000	2916.66667

```
14 rows selected.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Empno,
3  Ename,
```

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```
4 OE.Deptno,
5 TO_CHAR(Sal, '9G999D99') Sal,
6 TO_CHAR(IE.SalAvg, '9G999D99') SalAvg
7 FROM Emp OE,
8 (
9 SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) IE
13* WHERE OE.Deptno = IE.Deptno
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	SALAVG
7521	WARD	30	1,250.00	1,566.67
7900	JAMES	30	950.00	1,566.67
7844	TURNER	30	1,500.00	1,566.67
7499	ALLEN	30	1,600.00	1,566.67
7654	MARTIN	30	1,250.00	1,566.67
7698	BLAKE	30	2,850.00	1,566.67
7876	ADAMS	20	1,100.00	2,175.00
7788	SCOTT	20	3,000.00	2,175.00
7369	SMITH	20	800.00	2,175.00
7902	FORD	20	3,000.00	2,175.00
7566	JONES	20	2,975.00	2,175.00
7934	MILLER	10	1,300.00	2,916.67
7782	CLARK	10	2,450.00	2,916.67
7839	KING	10	5,000.00	2,916.67

14 rows selected.

SQL> cl scr

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, E1.SalAvg
2 FROM Emp E,
3 (
4 SELECT Deptno, AVG(Sal) SalAvg
5 FROM Emp
6 GROUP BY Deptno
7 ) E1
8 WHERE E.Deptno = E1.Deptno AND
9 E.Sal > E1.SalAvg;
```

ENAME	SAL	DEPTNO	SALAVG
ALLEN	1600	30	1566.66667
BLAKE	2850	30	1566.66667
SCOTT	3000	20	2175

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```
FORD          3000          20          2175
JONES         2975          20          2175
KING          5000          10 2916.66667
```

6 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  E.Ename,
  3  E.Sal,
  4  E.Deptno,
  5  ROUND(E1.SalAvg, 2) DeptAvgSal,
  6  ROUND(E.Sal - E1.SalAvg) DiffSalAvg
  7  FROM Emp E,
  8  (
  9    SELECT Deptno, AVG(Sal) SalAvg
 10  FROM Emp
 11  GROUP BY Deptno
 12  ) E1
 13 WHERE E.Deptno = E1.Deptno
 14 ORDER BY Deptno
 15 /
```

ENAME	SAL	DEPTNO	DEPTAVGSAL	DIFFSALAVG
KING	5000	10	2916.67	2083
CLARK	2450	10	2916.67	-467
MILLER	1300	10	2916.67	-1617
JONES	2975	20	2175	800
FORD	3000	20	2175	825
SMITH	800	20	2175	-1375
SCOTT	3000	20	2175	825
ADAMS	1100	20	2175	-1075
BLAKE	2850	30	1566.67	1283
MARTIN	1250	30	1566.67	-317
ALLEN	1600	30	1566.67	33
TURNER	1500	30	1566.67	-67
JAMES	950	30	1566.67	-617
WARD	1250	30	1566.67	-317

14 rows selected.

```
SQL> SELECT
  2  E.Ename,
  3  E.Sal,
  4  E.Deptno,
  5  E1.SalSum
```

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```
6 FROM Emp E,
7 (
8 SELECT Deptno, SUM(Sal) SalSUM
9 FROM Emp
10 GROUP BY Deptno
11 ) E1
12 WHERE E.Deptno = E1.Deptno
13 ORDER BY Deptno;
```

ENAME	SAL	DEPTNO	SALSUM
KING	5000	10	8750
CLARK	2450	10	8750
MILLER	1300	10	8750
JONES	2975	20	10875
FORD	3000	20	10875
SMITH	800	20	10875
SCOTT	3000	20	10875
ADAMS	1100	20	10875
BLAKE	2850	30	9400
MARTIN	1250	30	9400
ALLEN	1600	30	9400
TURNER	1500	30	9400
JAMES	950	30	9400
WARD	1250	30	9400

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT
2 E.Ename,
3 E.Sal,
4 E.Deptno,
5 E1.SalSUM,
6 E1.Staff,
7 E1.SalAVG
8 FROM Emp E,
9 (
10 SELECT
11 Deptno,
12 SUM(Sal) SalSUM,
13 AVG(Sal) SalAVG,
14 COUNT(*) Staff
15 FROM Emp
16 GROUP BY Deptno
17 ) E1
```

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```
18 WHERE E.Deptno = E1.Deptno
19* ORDER BY Deptno
SQL> /
```

ENAME	SAL	DEPTNO	SALSUM	STAFF	SALAVG
KING	5000	10	8750	3	2916.66667
CLARK	2450	10	8750	3	2916.66667
MILLER	1300	10	8750	3	2916.66667
JONES	2975	20	10875	5	2175
FORD	3000	20	10875	5	2175
SMITH	800	20	10875	5	2175
SCOTT	3000	20	10875	5	2175
ADAMS	1100	20	10875	5	2175
BLAKE	2850	30	9400	6	1566.66667
MARTIN	1250	30	9400	6	1566.66667
ALLEN	1600	30	9400	6	1566.66667
TURNER	1500	30	9400	6	1566.66667
JAMES	950	30	9400	6	1566.66667
WARD	1250	30	9400	6	1566.66667

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
  2  T1.Deptno,
  3  Dname, Staff
  4  FROM Dept T1,
  5  (
  6  SELECT
  7  Deptno,
  8  COUNT(*) AS Staff
  9  FROM Emp
 10  GROUP BY Deptno
 11  ) T2
 12 WHERE T1.Deptno = T2.Deptno
 13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

```
SQL> ED
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```

```
1  SELECT
```

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```
2 T1.Deptno,
3 Dname,
4 COUNT(*) Staff
5 FROM Dept T1, Emp T2
6 WHERE T1.Deptno = T2.Deptno
7 GROUP BY T1.Deptno, Dname
8* HAVING COUNT(*) >= 5
SQL> /
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT
2 T1.Deptno,
3 Dname,
4 COUNT(*) Staff
5 FROM Dept T1, Emp T2
6 WHERE T1.Deptno = T2.Deptno
7 GROUP BY T1.Deptno, Dname
8 HAVING COUNT(*) >= 5;
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

Execution Plan

Plan hash value: 2286730561

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	490	8 (25)	
1	FILTER					
2	HASH GROUP BY		14	490	8 (25)	
3	HASH JOIN		14	490	7 (15)	

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```
.....
| 4 | TABLE ACCESS FULL| DEPT | 4 | 88 | 3 (0) |
00:00:01 |
| 5 | TABLE ACCESS FULL| EMP | 14 | 182 | 3 (0) |
00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
-----
1 - filter(COUNT(*)>=5)
3 - access("T1"."DEPTNO"="T2"."DEPTNO")
```

Note

```
-----
- dynamic sampling used for this statement
```

```
SQL> SELECT
2 T1.Deptno,
3 Dname, Staff
4 FROM Dept T1,
5 (
6 SELECT
7 Deptno,
8 COUNT(*) AS Staff
9 FROM Emp
10 GROUP BY Deptno
11 ) T2
12 WHERE T1.Deptno = T2.Deptno
13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

Execution Plan

Plan hash value: 1389389523

```
-----
Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
-----
```

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```
-----
| 0 | SELECT STATEMENT | | 14 | 672 | 8 (25) |
00:00:01 |
|* 1 | HASH JOIN | | 14 | 672 | 8 (25) |
00:00:01 |
| 2 | TABLE ACCESS FULL | DEPT | 4 | 88 | 3 (0) |
00:00:01 |
| 3 | VIEW | | 14 | 364 | 4 (25) |
00:00:01 |
|* 4 | FILTER | | | | |
|
| 5 | HASH GROUP BY | | 14 | 182 | 4 (25) |
00:00:01 |
| 6 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) |
00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
-----
1 - access("T1"."DEPTNO"="T2"."DEPTNO")
4 - filter(COUNT(*)>=5)
```

Note

- dynamic sampling used for this statement

SQL> cl scr

SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr

SQL> SELECT SUM(Sal) FROM Emp;

SUM(SAL)

29025

SQL> SELECT Deptno, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno;

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

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SQL> cl scr

```
SQL> SELECT
  2  Deptno,
  3  SUM(Sal),
  4  SUM(Sal) / Tot_Sal * 100 "Salary%"
  5  FROM Emp,
  6  (
  7  SELECT SUM(Sal) Tot_Sal
  8  FROM Emp
  9  )
 10 GROUP BY Deptno, Tot_Sal;
```

DEPTNO	SUM(SAL)	Salary%
10	8750	30.1464255
20	10875	37.4677003
30	9400	32.3858742

```
SQL> SELECT Ename, Sal
  2  FROM Emp;
```

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950
WARD	1250
FORD	3000
SMITH	800
SCOTT	3000
ADAMS	1100
MILLER	1300

14 rows selected.

```
SQL> ed
Write file afiedt.buf
```

```
1  SELECT
2  Ename,
3  TO_CHAR(Sal, '9G999D99') Sal,
4  TO_CHAR((Sal / OrgSal * 100), '09D99')||' %Share' "%Share"
```

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```
5 FROM Emp,
6 (
7 SELECT SUM(Sal) OrgSal
8 FROM Emp
9* )
SQL> /
```

ENAME	SAL	%Share
KING	5,000.00	17.23 %Share
BLAKE	2,850.00	09.82 %Share
CLARK	2,450.00	08.44 %Share
JONES	2,975.00	10.25 %Share
MARTIN	1,250.00	04.31 %Share
ALLEN	1,600.00	05.51 %Share
TURNER	1,500.00	05.17 %Share
JAMES	950.00	03.27 %Share
WARD	1,250.00	04.31 %Share
FORD	3,000.00	10.34 %Share
SMITH	800.00	02.76 %Share
SCOTT	3,000.00	10.34 %Share
ADAMS	1,100.00	03.79 %Share
MILLER	1,300.00	04.48 %Share

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2 Job,
3 SUM(Sal),
4 ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10 GROUP BY Job, Tot_Sal;
```

JOB	SUM(SAL)	Salary%
PRESIDENT	5000	17.23
SALESMAN	5600	19.29
ANALYST	6000	20.67
MANAGER	8275	28.51
CLERK	4150	14.3

```
SQL> cl scr
```

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```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  SUM(Sal),
  4  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  5  FROM Emp,
  6  (
  7    SELECT SUM(Sal) Tot_Sal
  8    FROM Emp
  9  )
 10 GROUP BY TO_CHAR(HireDate, 'YYYY'), Tot_Sal;
```

YEAR	SUM(SAL)	Salary%
1982	4300	14.81
1980	800	2.76
1981	22825	78.64
1983	1100	3.79

```
SQL> cl scr
```

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  TO_CHAR(HireDate, 'Month') "Month",
  4  SUM(Sal),
  5  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  6  FROM Emp,
  7  (
  8    SELECT SUM(Sal) Tot_Sal
  9    FROM Emp
 10  )
 11 WHERE TO_CHAR(HireDate, 'YYYY') = &GiveYear
 12 GROUP BY
 13 TO_CHAR(HireDate, 'YYYY'),
 14 TO_CHAR(HireDate, 'Month'), Tot_Sal;
```

Enter value for giveyear: 1981

YEAR	Month	SUM(SAL)	Salary%
1981	November	5000	17.23
1981	April	2975	10.25
1981	June	2450	8.44
1981	September	2750	9.47
1981	December	3950	13.61
1981	May	2850	9.82
1981	February	2850	9.82

7 rows selected.

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SQL> cl scr

SQL> SELECT COUNT(*) FROM Emp;

COUNT(*)
14

SQL> SELECT COUNT(*) FROM Dept;

COUNT(*)
4

SQL> SELECT COUNT(*) FROM SalGrade;

COUNT(*)
5

SQL> SELECT E.EmpCount, D.DeptCount, S.GradeCnt
2 FROM
3 (
4 SELECT COUNT(*) EmpCount
5 FROM Emp
6) E,
7 (
8 SELECT COUNT(*) DeptCount
9 FROM Dept
10) D,
11 (
12 SELECT COUNT(*) GradeCnt
13 FROM SalGrade
14) S;

EMPCOUNT	DEPTCOUNT	GRADECNT
14	4	5

SQL> SELECT
2 E.EmpCount,
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt
6 FROM
7 (
8 SELECT COUNT(*) EmpCount

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```
9 FROM Emp
10 ) E,
11 (
12 SELECT COUNT(*) DeptCount
13 FROM Dept
14 ) D,
15 (
16 SELECT COUNT(*) GradeCnt
17 FROM SalGrade
18 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT
14	4	5	23

```
SQL> SELECT
2 E.EmpCount,
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt,
6 GREATEST(E.EmpCount, D.DeptCount, S.GradeCnt) HighRecinTab,
7 LEAST(E.EmpCount, D.DeptCount, S.GradeCnt) LowRecinTab
8 FROM
9 (
10 SELECT COUNT(*) EmpCount
11 FROM Emp
12 ) E,
13 (
14 SELECT COUNT(*) DeptCount
15 FROM Dept
16 ) D,
17 (
18 SELECT COUNT(*) GradeCnt
19 FROM SalGrade
20 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT	HIGHRECINTAB	LOWRECINTAB
14	4	5	23	14	4

```
SQL> cl scr
```

```
SQL> SELECT
2 A.Deptno "Department Number",
3 (A.NumEmp / B.TotalCount) * 100 "%Employees",
4 (A.SalSum / B.TotalSal) * 100 "%Salary"
5 FROM
6 (
```

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```
7  SELECT
8  Deptno,
9  COUNT(*) NumEmp,
10 SUM(Sal) SalSum
11 FROM Emp
12 GROUP BY Deptno
13 ) A,
14 (
15 SELECT
16 COUNT(*) TotalCount,
17 SUM(Sal) TotalSal
18 FROM Emp
19 ) B;
```

Department	Number	%Employees	%Salary
	10	21.4285714	30.1464255
	20	35.7142857	37.4677003
	30	42.8571429	32.3858742

SQL> SPOOL OFF

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